

APR 16 2018

Euro bean ware house 4B



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

646.4002

Job Sheet 176026



Part No: 646.4002

Job Qty: 1 ea

Part Name: AS350 Wiper Deflector



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 4/16/18

Job Tracking No:

Due Date: 4/20/18

Created By: Marie Lajeunesse

Type: SOLD

Description:

Note: DWG REV C1 IPP REV:A 12.12.23 NEW ISSUE DD VERF:JLM IPP REV:B 16.01.07 DWG REV.C DD  
VERF:JLM

Ship Via:

## Bill of Materials

## Job Routing

| Op No | Operation          | Qty   | Start Date | Due Date | Standard  |         | Workcenter/Supplier   |           | Sign-off |
|-------|--------------------|-------|------------|----------|-----------|---------|-----------------------|-----------|----------|
|       |                    |       |            |          | Setup hrs | Run Hrs | Workcenter / Supplier | Lead Time |          |
| 90    | Start up Operation | 1 Ea  |            | 4/20/18  | 0.00      | 0.00    | Start Up Stores/Pkg-1 |           |          |
| 110   | Packaging          | 1 pcs |            | 4/20/18  | 0.00      | 0.00    | Packaging1-1          |           |          |
| 120   | QC                 | 1 pcs |            | 4/20/18  | 0.00      | 0.00    | QC4                   |           | 11.10    |
| 125   | DC                 | 1 pcs |            | 4/20/18  | 0.00      | 0.00    | DC                    |           | 11.10    |
| 130   | Packaging          | 1 pcs |            | 4/20/18  | 0.00      | 0.00    | Packaging3-1          |           |          |
| 140   | QC21-FG            | 1 Ea  |            | 4/20/18  | 0.00      | 0.00    | QC21                  |           |          |

Part Op 125 - Photocopy bluefile &amp; type labels per PPP 646.4002

Descriptions: 130 - Identify and pack for shipping as per PPP 646.4002 Location: FG102

APR 17 2018

## Job BOM

DAS  
21

| Part / Item   | Component Name              | Quantity      | Operation             | Container  |
|---------------|-----------------------------|---------------|-----------------------|------------|
| 600.1012      | Sealant PR1425B2 (#654 sem) | 1 pcs (1 ea)  | 90-Start up Operation | 505401     |
| 646.3410      | LH Wiper Deflector          | 1 Ea (1 ea)   | 90-Start up Operation | F125698-10 |
| 646.3411      | RH Wiper Deflector          | 1 Ea (1 ea)   | 90-Start up Operation | F125082-7  |
| 646.3814      | Wiper Bracket               | 2 Ea (2 ea)   | 90-Start up Operation | 502278     |
| MS21042L3     | Nut                         | 6 Ea (6 ea)   | 90-Start up Operation | 5038764    |
| MS24694-S53   | Screw                       | 2 Ea (2 ea)   | 90-Start up Operation | F113359    |
| MS27039-1-18  | Screw                       | 2 Ea (2 ea)   | 90-Start up Operation | 5124326    |
| MS27039-1-19  | Screw                       | 2 Ea (2 ea)   | 90-Start up Operation | 5050051    |
| NAS1149F0332P | Washer                      | 16 Ea (16 ea) | 90-Start up Operation | 5059225    |

11/2018

## Job Allocations

| Operation             | Component Part | Required | Inventory | Allocated |
|-----------------------|----------------|----------|-----------|-----------|
| 90-Start up Operation | 600.1012       | 1        | 25        | 0         |
|                       | 646.3410       | 1        | 10        | 0         |
|                       | 646.3411       | 1        | 12        | 0         |
|                       | 646.3814       | 2        | 4         | 0         |
|                       | MS21042L3      | 6        | 2,443     | 0         |
|                       | MS24694-S53    | 2        | 233       | 0         |
|                       | MS27039-1-18   | 2        | 1,357     | 0         |
|                       | MS27039-1-19   | 2        | 261       | 0         |
|                       | NAS1149F0332P  | 16       | 3,115     | 0         |

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

## WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order update only ☐

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
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| Work Order: _____<br><br>Part No. _____<br><br>NCR No. _____                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/><br>Suspected Unapproved <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                      | <b>AGAINST DEPARTMENT/PROCESS</b><br><br><div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/><br/>           Machining <input type="checkbox"/><br/>           Thermoforming <input type="checkbox"/><br/>           Large Fab <input type="checkbox"/> </div> <div>           Cross tube <input type="checkbox"/><br/>           Small Fab <input type="checkbox"/><br/>           Finishing <input type="checkbox"/><br/>           Composite <input type="checkbox"/> </div> <div>           Water Jet <input type="checkbox"/><br/>           Prod. Eng. Coord. <input type="checkbox"/><br/>           Rec/Store/Packaging <input type="checkbox"/><br/>           Supplier <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/><br/>           Quality <input type="checkbox"/><br/>           Other <input type="checkbox"/> </div> </div> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| Date : _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Step #: _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | QTY Effective : _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | MRB (QSI042) Approval                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
| Description Work Order Deviation                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Disposition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Lead hand / Supervisor Approval Verification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | QC / QA Coordinator Approval                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Positioned Wrong                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| Root Cause                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | FAULT CATEGORIES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <div style="text-align: center;"> <br/> <b>Container No: S061182</b><br/> <b>Part: 646.4002</b><br/> <b>Job No: 176026</b><br/> <b>Serial No/Batch: S061182</b><br/> <b>Revision:</b><br/> <b>Inspector:</b> </div> <div style="font-size: small; margin-top: 10px;"> <b>Dart Aerospace Ltd.</b><br/>           1270 Aberdeen Street<br/>           Markham, ON L3R 9K7<br/>           CANADA<br/>           TEL: 1 877 632-5200<br/>           Email: sales@dartaero.com<br/>           www.dartaerospace.com         </div> |  |
| Environment <input type="checkbox"/><br>Design <input type="checkbox"/><br>Doc/Data <input type="checkbox"/><br>Equip/Tooling <input type="checkbox"/><br>Handling/Pre <input type="checkbox"/><br>Material <input type="checkbox"/><br>Internal Transport <input type="checkbox"/><br>Tribal Knowledge <input type="checkbox"/><br>LOA <input type="checkbox"/><br>Substation <input type="checkbox"/><br>Past Expiry Date <input type="checkbox"/><br>Misidentified <input type="checkbox"/> | No Re-verification <input type="checkbox"/><br>Operator <input type="checkbox"/><br>Offset/Setup <input type="checkbox"/><br>Supplier <input type="checkbox"/><br>Training <input type="checkbox"/><br>Use for Testing <input type="checkbox"/><br>Poor Information <input type="checkbox"/><br>Rushing <input type="checkbox"/><br>Product Improvement <input type="checkbox"/><br>Process Improvement <input type="checkbox"/><br>Manufacturing Process <input type="checkbox"/><br>Past Due <input type="checkbox"/> | Pressure/Forced <input type="checkbox"/><br>Bending <input type="checkbox"/><br>Centre Not Concentric <input type="checkbox"/><br>Cracks <input type="checkbox"/><br>Crimp/Kink/Ripple/Wave <input type="checkbox"/><br>Cuffs <input type="checkbox"/><br>Crushing <input type="checkbox"/><br>Heat Treat <input type="checkbox"/><br>Wave/Twist in Tube <input type="checkbox"/><br>Marks/Chatter <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Temperature/Cure <input type="checkbox"/><br>Set-up <input type="checkbox"/><br>BOM/Route <input type="checkbox"/><br>Broken/Damage/Defect <input type="checkbox"/><br>Inspection Incomplete/Unqualified <input type="checkbox"/><br>Contamination <input type="checkbox"/><br>Countersink <input type="checkbox"/><br>Cut Too Short <input type="checkbox"/><br>Instructions Incomplete/Unclear <input type="checkbox"/><br>Drill Holes <input type="checkbox"/> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| OTHER : _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| Misaligned/off center <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| Drawing <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| Finish <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| Misread <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| Turning Sequence <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |

## Part Specifications

Specifications could not be found.

Plex 4/16/18 7:27 AM Dart.lajeunesse.marie



DQA: \_\_\_\_\_ Date: \_\_\_\_\_

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order update only ☐

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| Work Order: _____<br><br>Part No. _____<br><br>NCR No. _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/><br>Suspected Unapproved <input type="checkbox"/> | <b>AGAINST DEPARTMENT/PROCESS</b><br><br><div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/><br/>           Machining <input type="checkbox"/><br/>           Thermoforming <input type="checkbox"/><br/>           Large Fab <input type="checkbox"/> </div> <div>           Cross tube <input type="checkbox"/><br/>           Small Fab <input type="checkbox"/><br/>           Finishing <input type="checkbox"/><br/>           Composite <input type="checkbox"/> </div> <div>           Water Jet <input type="checkbox"/><br/>           Prod. Eng. Coord. <input type="checkbox"/><br/>           Rec/Store/Packaging <input type="checkbox"/><br/>           Supplier <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/><br/>           Quality <input type="checkbox"/><br/>           Other <input type="checkbox"/> </div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |  |                                                 |  |
| Date :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Step #:                                                                                                                                                                            | QTY Effective :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  | MRB (QSI042) Approval                           |  |
| Description Work Order Deviation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                    | Disposition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |                                                 |  |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  | Lead hand / Supervisor<br>Approval Verification |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  | QC / QA Coordinator<br>Approval                 |  |
| <b>Root Cause</b><br><div style="display: flex; justify-content: space-between;"> <div>           Environment <input type="checkbox"/><br/>           Design <input type="checkbox"/><br/>           Doc/Data <input type="checkbox"/><br/>           Equip/Tooling <input type="checkbox"/><br/>           Handling/Pre <input type="checkbox"/><br/>           Material <input type="checkbox"/><br/>           Internal Transport <input type="checkbox"/><br/>           Tribal Knowledge <input type="checkbox"/><br/>           LOA <input type="checkbox"/><br/>           Substation <input type="checkbox"/><br/>           Past Expiry Date <input type="checkbox"/><br/>           Misidentified <input type="checkbox"/> </div> <div>           No Re-verification <input type="checkbox"/><br/>           Operator <input type="checkbox"/><br/>           Offset/Setup <input type="checkbox"/><br/>           Supplier <input type="checkbox"/><br/>           Training <input type="checkbox"/><br/>           Use for Testing <input type="checkbox"/><br/>           Poor Information <input type="checkbox"/><br/>           Rushing <input type="checkbox"/><br/>           Product Improvement <input type="checkbox"/><br/>           Process Improvement <input type="checkbox"/><br/>           Manufacturing Process <input type="checkbox"/><br/>           Past Due <input type="checkbox"/> </div> </div> |                                                                                                                                                                                    | <b>FAULT CATEGORY</b><br><div style="display: flex; justify-content: space-between;"> <div>           Pressure/Forced <input type="checkbox"/><br/>           Bending <input type="checkbox"/><br/>           Centre Not Concentric <input type="checkbox"/><br/>           Cracks <input type="checkbox"/><br/>           Crimp/Kink/Ripple/Wave <input type="checkbox"/><br/>           Cuffs <input type="checkbox"/><br/>           Crushing <input type="checkbox"/><br/>           Heat Treat <input type="checkbox"/><br/>           Wave/Twist in Tube <input type="checkbox"/><br/>           Marks/Chatter <input type="checkbox"/> </div> <div>           Temperature/Cure <input type="checkbox"/><br/>           Set-up <input type="checkbox"/><br/>           BOM/Route <input type="checkbox"/><br/>           Broken/Damage/Defect <input type="checkbox"/><br/>           Inspection Incomplete/Unqualified <input type="checkbox"/><br/>           Contamination <input type="checkbox"/><br/>           Countersink <input type="checkbox"/><br/>           Cut Too Short <input type="checkbox"/><br/>           Instructions Incomplete/Unclear <input type="checkbox"/><br/>           Drill Holes <input type="checkbox"/> </div> <div>           Power Loss/Surge <input type="checkbox"/><br/>           Folio/Program <input type="checkbox"/><br/>           Grain <input type="checkbox"/><br/>           Weld <input type="checkbox"/><br/>           Wrong Stock Pulled <input type="checkbox"/><br/>           Out of Sequence <input type="checkbox"/><br/>           Off-set <input type="checkbox"/><br/>           Misabeled <input type="checkbox"/><br/>           Fit/Function <input type="checkbox"/><br/>           Misaligned/off center <input type="checkbox"/> </div> <div>           Positioned Wrong <input type="checkbox"/><br/>           Outside Dimensions <input type="checkbox"/><br/>           Over/Under tolerance <input type="checkbox"/><br/>           Part Incorrect <input type="checkbox"/><br/>           Part Lost/Missing <input type="checkbox"/><br/>           Part Moved <input type="checkbox"/><br/>           Drawing <input type="checkbox"/><br/>           Finish <input type="checkbox"/><br/>           Misread <input type="checkbox"/><br/>           Turning Sequence <input type="checkbox"/> </div> </div> |  |  |                                                 |  |
| OTHER : <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |                                                 |  |



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

## Container View (Active) - Master Unit Containers

| Master Unit No | Container No | Part No       | Part Name                   | From Container | Current Location | Quantity |
|----------------|--------------|---------------|-----------------------------|----------------|------------------|----------|
| 002531         | S061179      | 600.1012      | Sealant PR1425B2 (#654 sem) | s054101        | CCK017           | 1        |
| 002531         | S061178      | 646.3410      | LH Wiper Deflector          | F125082-10     | CCK010           | 1        |
| 002531         | S061177      | 646.3411      | RH Wiper Deflector          | F125082-9      | CCK010           | 1        |
| 002531         | S061175      | 646.3814      | Wiper Bracket               | S022785        | CCK105           | 2        |
| 002531         | S061174      | MS21042L3     | Nut                         | S038764        | ST303            | 6        |
| 002531         | S061173      | MS24694-S53   | Screw                       | F113359        | ST284            | 2        |
| 002531         | S061172      | MS27039-1-18  | Screw                       | F124326        | OVER006          | 2        |
| 002531         | S061171      | MS27039-1-19  | Screw                       | S050051        | ST280            | 2        |
| 002531         | S061170      | NAS1149F0332P | Washer                      | S057525        | ST262            | 16       |

Note: Ad hoc query view of Part.dbo.Container where Container.Active = 1.

Plex 4/16/18 8:37 AM dart.quirion.sonia



REFERENCE ONLY

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES, DBA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE EXPLICIT WRITTEN PERMISSION OF APICAL INDUSTRIES DBA DART AEROSPACE IS PROHIBITED.

## NOTES:

1. AFTER INSTALLATION, APPLY F/N 54 A/R TO FILL GAPS AND FILLET EDGES.

2. INSTALL F/N 14 WITH F/N 52 & 53.

3. 3M VHB ADHESIVE TAPE .025" THICK X .50" WIDE  
VENDOR: MCMASTER-CARR P/N 75935A651.

4. 3M TAPE PRIMER 94, APPLY TO BOTH SURFACES A/R BEFORE TAPE.  
VENDOR: R.S. HUGHES P/N 021200-74716.

5. REUSE FASTENERS FROM F/N 1.

6. USE WASHERS A/R AS SHIMS TO OBTAIN BEST FITMENT.

7. AT CUSTOMERS OPTION, INSTALL F/N 65 BY MATCH DRILLING ON TO F/N 1.

8. INSTALL SHIM IF OEM PROVISIONS ARE INSTALLED ON AIRCRAFT. REMOVE SHIM LAYERS TO ACHIEVE CORRECT SIZE. MATCH DRILL HOLES. USE F/N 78 SCREW IN PLACE OF F/N 17 SCREW.

9. NEWER INSTALLATIONS ON AIRCRAFT WITH UPDATED CANOPY MAY REQUIRE DIFFERENT LENGTH SCREWS. USE F/N 62 TO REPLACE F/N 44 & F/N 26 IN PLACE OF F/N 41 WHEN NECESSARY.

## UNINCORPORATED ECN(S)

05304

|      |      |      |      |      |      |          |                       |             |                                                                                       |       |
|------|------|------|------|------|------|----------|-----------------------|-------------|---------------------------------------------------------------------------------------|-------|
|      | 5    |      | 5    |      | 78   | 601.3875 | SCREW                 |             |    |       |
|      | 1    |      | 1    |      | 77   | 646.9410 | SHIM                  |             |    |       |
|      |      |      | 4    |      | 76   | 601.2764 | WASHER                |             | NAS1149P0430P                                                                         |       |
|      |      |      | 2    |      | 75   | 601.2973 | LOCKNUT               |             | MS21042-08                                                                            |       |
|      |      |      | 2    |      | 74   | 601.2988 | SCREW                 |             | MS27039-0813                                                                          |       |
|      |      |      | 2    |      | 73   | 601.2943 | LOCKNUT               |             | MS21042-3                                                                             |       |
|      |      |      | 2    |      | 72   | 601.3128 | NUT                   |             | AN316C4R                                                                              |       |
|      |      |      | 2    |      | 71   | 601.3209 | LOCKNUT               |             | MS21042L4                                                                             |       |
|      |      |      | 4    |      | 70   | 601.2638 | WASHER                |             | NAS1149P0430P                                                                         |       |
|      |      |      | 2    |      | 69   | 601.2669 | BOLT                  |             | ANAC7A                                                                                |       |
|      |      |      | 2    |      | 68   | 601.3119 | CLEVIS                |             | ANM45-34R                                                                             |       |
|      |      |      | 2    |      | 67   | 601.3121 | EYE BOLT              |             | AN44-5A                                                                               |       |
|      |      |      | 2    |      | 66   | 650.9201 | EYE BRACKET ASSY      |             |                                                                                       |       |
|      | REF  | REF  |      | REF  | 65   | 647.5701 | GPS MOUNT KIT         |             |    |       |
|      |      |      |      | 2    | 64   | 601.3151 | WASHER                |             | NAS1149P0363P                                                                         |       |
|      |      |      | 24   |      | 63   | 601.2911 | SCREW                 |             | MS264P4553                                                                            |       |
|      |      |      | 2    | 2    | 62   | 601.2637 | SCREW                 |             | MS27039-1-10                                                                          |       |
|      | 2    |      | 1    | 2    | 61   | 601.2763 | BOLT                  |             | AN3-12A                                                                               |       |
|      |      |      | 1    | 1    | 60   | 646.3913 | SHIM                  |             |                                                                                       |       |
|      |      |      | 4    | 4    | 59   | 646.3912 | SHIM                  |             |                                                                                       |       |
|      |      |      | 1    | 1    | 58   | 646.3911 | SHIM                  |             |                                                                                       |       |
|      |      |      | 4    | 4    | 57   | 646.3910 | SHIM                  |             |                                                                                       |       |
|      |      |      | 5    | 5    | 56   | 600.1013 | PRIMER                |             |                                                                                       |       |
|      |      | 8 FT |      | 8 FT | 55   | 600.0129 | VHB TAPE              |             |                                                                                       |       |
|      |      | 1    | 1    | 1    | 54   | 600.1012 | SEALANT               |             | PR-145 CLASS B                                                                        |       |
|      |      | 1    | 1    | 1    | 53   | 600.0991 | MAGNABOND 6398 PART B |             |  |       |
|      |      | 1    | 1    | 1    | 52   | 600.0990 | MAGNABOND 6398 PART A |             |  |       |
|      | 6    | 10   |      | 10   | 51   | 601.2826 | BOLT                  |             | AN3-11A                                                                               |       |
|      |      |      | 2    |      | 50   | 646.3814 | WIPER BRACKET         |             |                                                                                       |       |
|      |      |      | 2    |      | 49   | 601.2910 | SCREW                 |             | MS27039-1-10                                                                          |       |
|      |      | 2    |      | 2    | 48   | 601.1365 | SCREW                 |             | MS27039-1-10                                                                          |       |
|      |      | 2    |      | 2    | 47   | 646.3719 | DOUBLER               |             |                                                                                       |       |
|      |      | 2    |      | 2    | 46   | 646.3718 | CUSTOM WASHER         |             |                                                                                       |       |
|      |      | 1    |      | 1    | 45   | 646.3717 | DOUBLER               |             |                                                                                       |       |
|      |      | 22   | 2    | 22   | 44   | 601.1948 | SCREW                 |             | MS27039-1-19                                                                          |       |
|      |      | 2    |      | 2    | 43   | 601.1952 | SCREW                 |             | MS27039-1-20                                                                          |       |
|      |      |      |      | 4    | 42   | 601.1956 | SCREW                 |             | MS27039-1-21                                                                          |       |
| 4006 | 4005 | 4004 | 4003 | 4002 | 4001 | FIND #   | PART #                | DESCRIPTION | MATL                                                                                  | SPEC. |

| REV | DESCRIPTION                                  | DATE       | APPROVED |
|-----|----------------------------------------------|------------|----------|
| A   | INCORPORATED ECN 0219, 0225, 1, 0279 & 02765 | 07/08/2010 | P. BRAVO |
| B   | INCORPORATED ECN 0204, 0209 & 0421           | 11/04/2014 | P. BRAVO |
| C   | INCORPORATED ECN 0208                        | 01/09/2015 | P. BRAVO |

|      |      |      |      |      |      |          |                                            |               |                |       |
|------|------|------|------|------|------|----------|--------------------------------------------|---------------|----------------|-------|
|      |      | 2    |      | 2    | 41   | 601.2829 | SCREW                                      |               | MS27469-4554   |       |
|      |      | 2    |      | 2    | 40   | 601.2831 | RIVET                                      |               | MS20470ADS-7   |       |
|      |      | 1    |      | 1    | 39   | 646.3716 | GAUGE BRACKET                              |               |                |       |
|      |      | 6    |      | 6    | 38   | 601.1953 | SCREW                                      |               | MS27039-1-12   |       |
|      | 2    | 2    |      | 2    | 37   | 646.3715 | STRUT DOUBLER                              |               |                |       |
|      |      | 2    |      | 2    | 36   | 601.2824 | BOLT                                       |               | ANS-5A         |       |
| 12   | 36   |      |      | 36   | 35   | 601.2277 | RIVET                                      |               | CC1924MS-3-07  |       |
| 6    | 18   |      |      | 18   | 34   | 600.0795 | NUTPLATE                                   |               | MS21047-3      |       |
| 3    | 3    |      |      | 3    | 33   | 601.2565 | RIVET                                      |               | MS20470ADS-7   |       |
| 1    | 1    |      |      | 1    | 32   | 646.3813 | STRUT BRACKET                              |               |                |       |
| 4    | 4    |      |      | 4    | 31   | 601.2822 | BOLT                                       |               | ANS-3A         |       |
| 2    | 2    |      |      | 2    | 30   | 646.3812 | GUSSET BRACKET                             |               |                |       |
| 6    | 8    |      |      | 8    | 29   | 601.2564 | RIVET                                      |               | MS20470ADS-6   |       |
| 1    | 1    |      |      | 1    | 28   | 646.3714 | GUSSET                                     |               |                |       |
|      | 1    |      |      | 1    | 27   | 646.3610 | FILLER                                     |               |                |       |
|      | 3    |      |      | 3    | 26   | 601.2830 | SCREW                                      |               | MS2469-MS55    |       |
|      | 2    |      |      | 2    | 25   | 601.2825 | BOLT                                       |               | ANS-5A         |       |
|      | 1    |      |      | 1    | 24   | 646.3811 | RADIUS BLOCK                               |               |                |       |
|      | 1    |      |      | 1    | 23   | 646.3712 | CLIP                                       |               |                |       |
|      | 1    |      |      | 1    | 22   | 646.3711 | CLIP                                       |               |                |       |
| 8    | 8    |      |      | 8    | 21   | 601.2832 | RIVET                                      |               | MS20470ADS-6-6 |       |
| 14   | 14   |      |      | 14   | 20   | 601.2020 | RIVET                                      |               | CP3213-6-3     |       |
| 4    | 6    | 4    | 6    | 10   | 19   | 601.2823 | BOLT                                       |               | ANS-4A         |       |
|      | 1    | 1    | 1    | 1    | 18   | 601.2827 | BOLT                                       |               | ANS-13A        |       |
|      | 5    |      | 5    | 5    | 17   | 601.2912 | SCREW                                      |               | MS2469-MS51    |       |
| 1    | 1    |      |      | 1    | 16   | 646.3713 | GUSSET                                     |               |                |       |
| 1    | 1    |      |      | 1    | 15   | 646.3210 | SUPPORT                                    |               |                |       |
|      | 1    |      |      | 1    | 14   | 646.3710 | DOUBLER                                    |               |                |       |
|      | 1    |      |      | 1    | 13   | 646.3110 | CHANNEL                                    |               |                |       |
| 14   | 10   | 8    | 53   | 6    | 61   | 12       | 601.1624                                   | LOCKNUT       | MS2210QZ-3     |       |
| 16   | 32   | 18   | 120  | 16   | 144  | 11       | 601.1607                                   | WASHER        | MS1149FC32SP   |       |
|      |      |      |      | 1    | 10   | 646.3410 | LH WIPER DEFLECTOR                         |               |                |       |
|      |      |      |      | 1    | 9    | 646.3411 | RH WIPER DEFLECTOR                         |               |                |       |
|      |      |      |      | 2    | 2    | 8        | 647.7703                                   | STRUT ASSY    |                |       |
|      |      |      |      | 2    | 2    | 7        | 647.0112                                   | STRUT BRACKET |                |       |
|      | 1    |      | 1    | 1    | 6    | 646.3511 | STRUT                                      |               |                |       |
|      | 1    |      | 1    | 1    | 5    | 646.3510 | STRUT                                      |               |                |       |
| 2    | 2    |      |      | 2    | 4    | 646.3810 | BRACKET                                    |               |                |       |
|      |      |      | 1    | 1    | 3    | 646.2910 | DEFLECTOR                                  |               |                |       |
|      | 1    |      | 1    | 1    | 2    | 646.3001 | LOWER CUTTER ASSY                          |               |                |       |
|      |      |      | 1    | 1    | 1    | 646.3301 | UPPER CUTTER ASSY                          |               |                |       |
| X    |      |      |      |      |      | 646.4006 | LOWER CUTTER FIXED PROVISIONS              |               |                |       |
|      | X    |      |      |      |      | 646.4005 | LOWER CUTTER REMOVABLE PROVISIONS          |               |                |       |
|      |      | X    |      |      |      | 646.4004 | FIXED PROVISIONS KIT                       |               |                |       |
|      |      |      | X    |      |      | 646.4003 | CABLE CUTTERS KIT WITHOUT FIXED PROVISIONS |               |                |       |
|      |      |      |      | X    |      | 646.4002 | AS350 WIPER DEFLECTOR KIT                  |               |                |       |
|      |      |      |      |      | X    | 646.4001 | AS350 CABLE CUTTERS KIT                    |               |                |       |
| 4005 | 4005 | 4004 | 4003 | 4002 | 4001 | FIND #   | PART #                                     | DESCRIPTION   | MATL           | SPEC. |

|               |  |                                                      |  |
|---------------|--|------------------------------------------------------|--|
| QTY           |  | PARTS LIST                                           |  |
| NEXT ASSY (S) |  | ORIGINAL DATE: 08-27-08                              |  |
|               |  | DRAWN BY: S. HUFF                                    |  |
|               |  | CHECKED: P. BRAVO                                    |  |
|               |  | DRAWING APPROVAL: P. BRAVO                           |  |
|               |  | CONTRACT NO.                                         |  |
|               |  | UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES |  |
|               |  | TOLERANCES ARE: .001                                 |  |
|               |  | 3 PLACES DECIMAL: .001                               |  |
|               |  | ANGLES: 1:3                                          |  |
|               |  | SCALE: NONE                                          |  |
|               |  | SHEET 1 OF 5                                         |  |

**DART** 3030 ENTERPRISE CT., SUITE A  
VISTA, CA. 92081  
(760)-724-5500

**AS350 CABLE CUTTERS KIT**

REV C